the apex of the costal cell picked out in black for over half its length; a similar, though not quite so heary a line, forms the apex of the brachial (fig. 1). Membrane suffused with pale brown. Abdomen with first six segments deep black, tip of abdomen pale. Legs milky-white.

Length 4 mm .
Bedford Park, Mitdlesex (Dr. C. J. Gahan) ; on Sycamore.

## Eupteryx stellulata Burm.

Burmeister, Gen. Ins. (1838) p. 16, fig. 1.
Ivory-white, with a faint bluish tinge. Elytra with a conspicuons, brown brand on the apical half; subeostal with much, suprabrachial and tip of brachial, light brown, the nervures smoky; subapical area somewhat darker brown; a very dark triangular patch at the extreme apex, with a not quite so dense a


Fig. 2.-Eupteryx stellulata Burm.
pateh in the region of the last apical cell; across the white sinuses made by the brand run dark-brown lines (fig. 2). Wings white, suffused with brown at the apex. Abdomen black-brown, with a little yellow showing towards the tip. Legs white; anterior tarsi yellowish; tips of hind tibiae brownish. Claws brown.

Length $4-4 \frac{1}{3} \mathrm{~mm}$.
Bedford Park, Middlesex (Dr. C. J. Gahan), forming food of larvae of Crabro gonager. Kew Gardens, Surrey (F. Laing); on Prunus spp.

British Museum (Nat. Hist.), S.W. 7.
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## A NEW BLASTOPHAGINE GENUS AND SPECIES FRON E. AFRICA (HYMENOPTERA-CHALCIDOIDEA).

## BY JAMES WATERSTON, B.D., B.Sc., F.E.S.

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There have recently been placed in my hands, through the courtesy of the Director of the Imperial Bureau of Entomology, London, several tubes of Chalcids in spirit. Mr. A. Loveridge, who forwarded the
material to the Bureau, states (in lit. 5.vii.19) that the tubes were recovered by limself from the floor of a building at Movogoro after the place had been ocenpied by our troops.

From the material so fortmately preserved several new species will shortly be described, but in the present paper I wish only to hring forward the following peculiar and very distinct Fig-Insect.

Fam. AGAONIDAE.
Subfam. AgaovivaE.
Alfonsielila, gen. nov.
Head normal for the group; not remarkably longer than broad; antennae 11-jointed. Scape triangularly produced rentrally; pedicel without appressed puinted scale-like sensmia: third joint simple, apically bluntly roundet; sensoria of fmicular joints short, in a subapical whorl, each giving rise to a long cursed tubular process; the joints themselves largely membranons towards the apex beyond the sensorial ring. Mandibles bidentate, not fused with the appendage, which is narrow and stout; its transverse ridges not minutely denticulate. Pronotum entire. Wings with the postmargibal short and obsolescent ; and the radius neanly rectangular to the costa. Abdonnal sternites shortly excised postero-medianly, except the 7 th, which is nearly divided; oripositor lung.

## Genotype, A. fimbriata, sp. n.

The condition of the postmarginal at once separates this gemus from any other group of African Agaoninae, except Allotriozoon Grandi (2 spp.). From the latter it may be known by (a) the peculiar sensoria on the funicle, (b) the mandibular dentition and simpler structure of the appendage, (c) the labial chaetotaxy, and (d) inclination of the radius. Its relationship to Eiseniella Ashm. (1906), Pegoscapas Cam. (1906), and Talentinella Grandi (1919)—all neotropical-is also close and apparent; but in all these the pedicel is armed with numerous sharp reflexed sensoria, the 3rd joint is complex (i. $e$, with pointed and artienlated appendage), and the funiele of the normal Blastophagine type.

Superticially Alfonsiella is very like Agaon Dalm., but a more particular examination shows its aflimities lie, on the whole, with Blastopherfo Grav. sens. str.

Alfonsiella fimbriata, sp. n.
ठ. Unknown.
ㅇ. A light-coloured species (but see below). Head darker than auy other part of the body, blackish-brown in colom' ; pedicel. scape, and leqs lightest in tone and concolorous. Funicle hardly darker. Thorax and abdomen intermediate in colour between the legs and head, the tergites darker slightly than tho stemites. Sheath of the oripositor nearly as dark as the
head. At the base of each fore wing is a very dark spot low down on the axilla, and (in mounted examples) a similar spot occurs (internally) at the base of the ovipositor.

Head.-Longer than broad; across the eyes 10:9, at the mouth edge $2: 1$. The eyes extend over $\frac{5}{5}$ of the depth (length) and are quite bare. Antemna (figs. 1, it length $7-8 \mathrm{~mm}$. Mandibles distinctly obtusely angled on the outer edge, just behind one-half from the apical tooth to the outer basal angle. Two teeth, one apical and rather long, the other subapical and inconspicuous; $6-8$ ridges ventrally, 8-9 bristles along the outer anterior edge and 1 on the


Fig. 1.-Antenna of Alfonsiella fimbriata Waterst. a, last funicular joint.
inner edge, about $\frac{1}{2}$. Appendage narrow (not half as broad as the mandible), stont, rod-like, with $14-15$ short hook-like ridges. Trophi: stipes 2 short bristles along the edge ( 1 at $\frac{2}{5}, 1$ at $\frac{3}{5}$ from the base). No apical lateral splint or trace of palpus. Galea 2 bristles; labium 2 bristles.

Thorax.-Pronotum deeply and broadly angularly incised posteriorly, with a stronger linear parabolic incrassation of the chitin before the posterior edge; anteriorly broadly truncate. surface reticulated only medianly and at the extreme sides, anteriorly, with about $50(25: 25)$ bristles. Mesonotum only a little ( $\frac{1}{7}$ ) longer than the scutellum. Parapsides $4-\tilde{5}$ bristles. Mesophragma $\frac{1}{3}$ longer than the scutellum. Mesosternum with 6-8 (3-4:3-4) hyaline spines of moderate length anteriorly, and $10-12$ bristles in two irregular approximated rows (5-6:5-6) about the mid-line, and 1-2 other bristles less definitely placel on each side. Mletanotum narrowly reticulate medianly, otherwise smooth; metapleurae bare. Propodeon in two smooth oblong sclerites, divided by a linear membramous area. Spiracle narrow, elongate, a little wider at both ends, with 10 bristles behind.

Hings.-Fore wings: length 1.4 mm ., breadth 6 mm . The neuration extends to about 6 mm . from the radix. Submarginal: marginal: radius; approximately in ratio $4: 1: 1$; the postmarginal ends indefinitely, but is only about $\frac{1}{3}$ of the radius at the point where it fades ont. On the submarginal are 3 bristles (one at $\frac{1}{1}$ and another at $\frac{3}{4}$ from the base, and the third at its junction with the costa); a fourth longer bristle stands on the costa above the origin of the radius. Submarginal cell proximally bare: on distal half with scattered minute bristles, and $12-15$ longer at the edge. Surface of wing densely clothed except for a narrow, clear hyaline tract, parallel with the hind
margin, extending from the radix to about the length of the submarginal vein. Hind wings: length 75 mm ., breadth $\cdot 14 \mathrm{~mm}$. Neuration reaching the middle of t:e wing.

Legs.-Fore leg: femur half as long again as coxa. Tibia not quite half $(4: 9)$ the femur. Along the immer (anterior) ventral half of the surface of the thbia six of the bristles (none of which are on the edge) are stouter; $3-4$ bristles along the ventral edge. Apical ventral angle produced into a short tooth; upper apical angle posteriorly with bidentate process-the lower tooth curved and longer. Anteriorly along the middle of the lst tarsal joint are :s short stont bristles, and one at the anteroventral angle. Joints $2-4$ bear anteriorly 1 similar bristle at the ventral angle, and another above at the middle of the apical suture. Tarsal joints in ratio 3:2:2:2:5. Mid ler: the first tarsal joint is about $\frac{1}{3}$ longer than the 2nd. Hind leg : coxa as long as femur, and both $\frac{1}{6}$ longer than the tibia, which bears posteriorly $5-6$ spinose and 3-4 thimer bristles. Tarsal joints in ratio $42: 27: 23: 15: 36$. In all five joints the postero-ventral edge is broatened out and the thin chitin deeply frayed, giving the whole tarsus a feathered appe trance.

Abdomen.-Tergites 1-4 are mediąnly salient and shortly notehed posteriorly. Tergi'e 5 is entire, but there is a clear muchitinized line from the middle of the hind margin, reaching anteriorly to about $\frac{1}{3}$. Tergite 6 is deeply ancularly emarginate posteriorly, and nearly divided into two quadrilateral selerites, which are eonnected only by a narrow, almost linear, part of the membrane of the segment. Spiracle moderate, suboval, and somewhat angled antero-ventrally: Each sclerite bears $10-20$ bristles. The setigerous process (stylet) is much longer ( $5: 3$ ) than broad. It is bluntly and broally truncate, and bears three of the usual four hairs in a transverse apical row ; the fourth is placed on the rentral edge. Ovipositor: measured along the ventral edge the abdouen and the ovipositor are of equal length. The ith sternite vomeriform in profile, its elongate apex reaching the tip of the stylet, or just beyond.

Length (bedy) 1.8 mm ., alar expanse 3.3 mm . Length of ovipositor $8 \mathrm{~m} . \mathrm{n}$. Type, ㅇ, in B. M.
One of a series of $¢ \circ$ collected in East Afriea, Dar-es-Salaam, Angust 1914 (A. Dampf).

Note.-The light eolour of the material on which this description is based may be due, in part, to fading in alcohol, in which the specimens have heen for nearly six years. The speeific name refers to the fringed appearance of the hind tarsus.

July 19:0.

## bOMbyLIUS MINOR L. AND SOME OTHER PARASITES OR INQUILINES OF COLLETES DAVIESANA Sm.

BY K. (i. BLALR, B.Sc., f.E.S.
In June of last year Mr. Hugh Main obtained from a sand-pit near Shanklin, I.W., the pseudochrysalis of a Meloïd beetle, which in the autumn produced Meloë brecicollis. Being myself at Shanklin in April,

